

THE BORDEN COMPANY

WARREN, OHIO

310 Dana Avenue

Branch Offices and Representatives

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Green 9-8460. P. A. Knauff.

Boston, Mass., Hal Rinear, 88 Gainsborough St., Apartment No. 3.

Philadelphia, Pa., A. J. Brott, 1035 W. Rockland St.



Pittsburgh, Pa., Al Thornton, 2816 Crosby Ave., Dormont.

Chicago, Ill., G. D. Clewell, 1621 E. 84th Place.

Tulsa, Okla., Cy W. Smith, 902 No. Elwood St.

Oakland, Cal., A. F. Howe, 717 Calmar Ave.

The "Model-A" BEAVER 1/2 to 2-Inch Portable Pipe Machine

A simple, portable, powerful machine—designed primarily to cut and thread iron, steel, cast-iron, brass or copper pipe—1/2 to 2-inch. Three opening die heads are supplied—(1/2x3/4-inch) (1x1 1/4-inch) (1 1/2x2-inch).

Adjustable for over or under standard. You change die heads—not loose dies! Unnecessary to back off over finished threads.

Die heads for (1/4x3/8-inch) and (1/8-inch) available extra.

With an extension driving shaft, the "Model-A" serves as a Power Drive to operate geared cutters and threaders from 2 1/2 to 12-inch.

Dies for threading bolts and rods from 1/4 to 1-inch available, extra.

The fully automatic cut-off cuts the pipe square and clean—no burrs. Knives cannot be broken due to "hogging."

Large handy star-wheel controls the rack-and-pinion feed.

The "work-head" tips back—a convenience when using the machine as a Power Drive; making up fittings; cleaning, etc.

The oil pump, mounted "out in the open," is easily accessible.

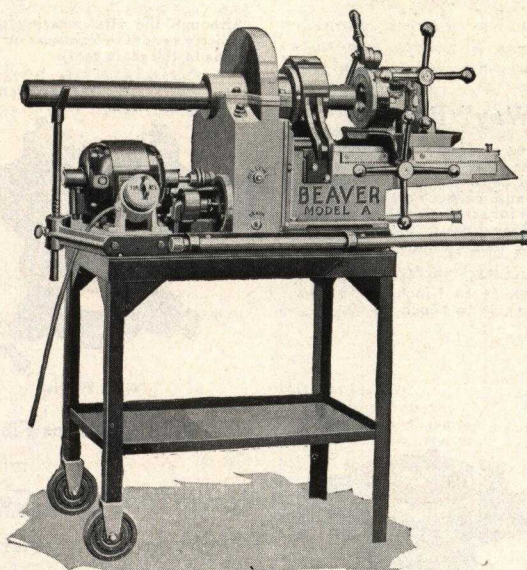
Two sliding handle-bars provide easy portability—like wheeling a wheel-barrow.

An adjustable out-board pipe support accommodates long lengths of pipe easily.

Alloy aluminum castings minimize weight.

Universal (reversible) motor operates on any 110 volt line, A.C. or D.C. current, any cycle 25 to 60. If desired, 220 volt motor will be supplied same price.

A five gallon pail of Beaver Threading Oil is shipped free with each machine.



The Model A Beaver possesses service features found only in machines selling at a much higher price—such as, Adjustable opening die head; Automatic "square-end" cut-off; Positive hand-wheel feed; Tilting die head; Accessible oil pump; Out-board pipe support; Easy portability.

Net Prices

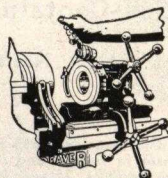
(Apply anywhere in the United States)

"Model-A" Beaver Pipe Machine

Complete with pipe support and portable stand.	\$362.50
Same—without portable stand.....	345.00
Extension shaft for operating geared tools.....	20.00



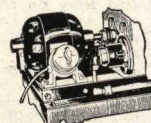
The rugged die head—each head threads two sizes.



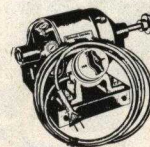
Showing ease of opening die head when thread is cut.



Showing automatic "cut - off" and tilting work-head.



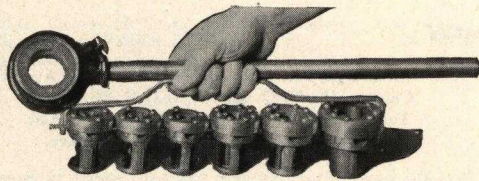
Showing accessibility of oil pump, motor, etc.



The motor assembly is a complete unit, 110 volt or 220 volt, optional.

The Improved Line of **BEAVER** Pipe Tools!

No. 3 Beaver Ratchet— $\frac{1}{8}$ to 1-Inch



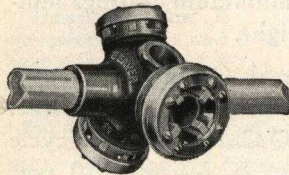
Advantages—Ratchet mechanism fully enclosed—no teeth on die head to become mutilated. Oil holes in die heads for easy oiling and chip clearance. Dies square in shape—no weak sections to break. Dies can be reversed for threading pipe end too short to pass through the die head. Handy die-head carrier pin. For iron, steel, brass or copper pipe. Right or left.

Specials—Bolt die heads $\frac{1}{4}$ to 1-inch; straight thread conduit dies $\frac{1}{2}$ to 1-inch; $\frac{3}{4}$ O. D. 20-thread brass pipe dies.

Net Prices—No. 3 Complete— $\frac{1}{4}$ to $\frac{3}{4}$ -inch, \$12.75; $\frac{3}{8}$ to 1-inch, \$13.50; $\frac{1}{2}$ to 1-inch, \$15.75; $\frac{1}{2}$ to 1-inch, \$18.00.

Units—Ratchet with handle, \$3. Die Heads with Dies— $\frac{1}{8}$, $\frac{1}{4}$ or $\frac{3}{8}$ -inch, \$2.25; $\frac{1}{2}$ or $\frac{3}{4}$ -inch, \$2.63; 1-inch, \$3.00; $\frac{3}{4}$ -inch, 20-thread Brass, \$3.00. Extra Dies, any size, per set, \$1.63. Bolt Die Heads, any size, right hand, $\frac{1}{4}$ to 1-inch, \$3.56.

"3-Way" Beavers



Advantages—Companion tools to No. 3 Beaver Ratchet, using same dies and die head caps. Large oil holes for easy oiling and chip clearance. Long handle bosses for strength and to prevent handles working loose. Simple, strong, well balanced. Self-contained. Right or left.

Net Prices—No. 33, $\frac{3}{8}$ to $\frac{3}{4}$ -inch, \$7.50; No. 34, $\frac{1}{2}$ to 1-inch, \$8.50; No. 34-E (conduit), $\frac{1}{2}$ to 1-inch, \$8.50.

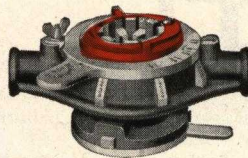
No. 6 Beaverette $\frac{1}{4}$ to $\frac{3}{4}$ -Inch

Advantages—Threads $\frac{1}{4}$ to $\frac{3}{4}$ -inch sizes without changing dies or bushings. Instantly adjusted for over, under or standard. Universal pipe guide centers the pipe accurately. Improved locking device.

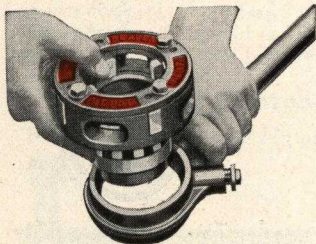
The two sets of dies (required because of the two different thread pitches) are always in the tool. For iron, steel, brass or copper pipe. Dies for $\frac{1}{8}$ -inch available extra.

Net Prices—No. 6 Beaverette, complete, $\frac{1}{4}$ to $\frac{3}{4}$ -inch.....\$12.00

Extra dies, per set, ($\frac{1}{8}$), ($\frac{1}{4}$ x $\frac{3}{8}$), ($\frac{1}{2}$ x $\frac{3}{4}$)..... 2.25



No. 17 Beaver Ratchet— $\frac{1}{4}$ to 2-Inch



Advantages—A rugged fool-proof tool. Four large oil holes (Bridged Across the Top to Prevent Spreading of Die Slots) facilitate oiling, provide ample chip clearance, and insure good threads. Die segments are square in shape—no weak sections to break off. Removable for regrinding—and may be sharpened over and over again. Extra long handle and special die grinding assists easy operation.

Buy any range of sizes. For steel, iron, cast iron, brass or copper pipe.

Net Prices—No. 17, complete, $\frac{1}{4}$ to 2-inch, \$13.20; $\frac{1}{2}$ to 2-inch, \$22.20; $\frac{3}{4}$ to 2-inch, \$27.80.

Units—One-handle Ratchet stock \$2.40; Two-handle Ratchet stock \$3.20; 1 $\frac{1}{4}$ -inch, \$3.40; 1 $\frac{1}{2}$ -inch, \$3.60; 2-inch, \$3.80. Extra Dies, any size, per set, \$2.25.

Beaver "4-Post" Die Stocks—1 to 2-Inch

These tools offer many new advantages to those who prefer light-weight, rugged die stocks—using a separate set of dies for each size of pipe.

Straight Line Pull

The ratchet pull is directly on the die head—not on the post plate, which loosens riveted posts.

Self-Contained Rear End

Centers the pipe accurately. Cuts uniform drip threads—also, close nipples. No bushings to lose.

Enclosed Spring Plunger Die Retaining Device

Saves the cost of many lost dies. (No exposed springs to get knocked off).

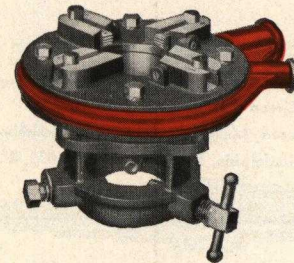
Open Die Slots for Easy Cleaning

Extra Heavy Upright Posts

Give greater strength, smoother operation and less repair expense.

Light in Weight

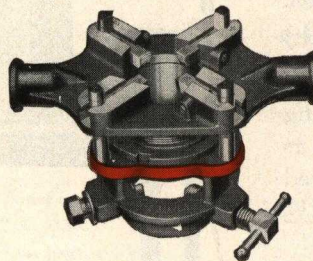
Although the vital wearing parts are of extra heavy construction, extreme simplicity results in lightness of weight—only 12 $\frac{3}{4}$ pounds in the ratchet tool (9 pounds in the plain tool).



No. 8-R Ratchet

Interchangeable Die Segments

If one segment becomes lost from a BEAVER set, any other BEAVER segment of this same number can be used to complete the set. A big saving to large contractors using many tools.



No. 8 Plain

NET PRICES

No. 8-R Beaver Ratchet, complete.....\$12.75

No. 8 Beaver Plain, complete... 10.50

Extra dies, any size, 1, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$ or 2-inch, per set..... .85

Special Brass Pipe Dies, per set. .85

BEAVER Dies Fit All Standard "4-Post" Tools

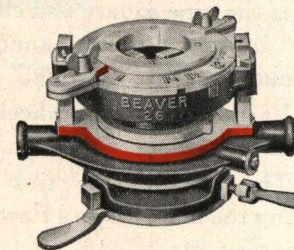
Heavy-Duty Self-Contained Beavers—1 to 2-Inch

No. 26—Ratchet.... Net \$19.25

No. 25—Plain..... Net 16.50

For more than twenty years these sturdy "one-piece" tools have been popular—the world over.

Advantages—Heavy duty, long-life tools. Thread 1, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$ and 2-inch without changing dies or bushings. Adjustable to thread over, under or standard—without affecting the length of thread. Improved die grinding makes them pull easier. Will cut crooked (drain) threads; also close nipples by using a coupling as a nipple holder. New models have many improved features. Right or Left. Special dies available for brass pipe.



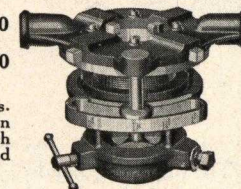
No. 26 Ratchet

Light-Weight Self-Contained Beavers—1 to 2-Inch

No. 11-A—Ratchet..... Net \$15.00

No. 11—Plain..... Net 12.50

Advantages—Have the same features as Nos. 25 and 26 but are lighter in weight and lower in price. Not as rugged as the Nos. 25 and 26 which are recommended where use is severe. Right hand only.



No. 11 Plain

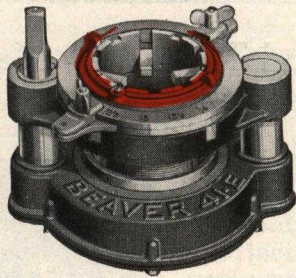
NET PRICES APPLY ANYWHERE IN THE UNITED STATES

The Improved Line of **BEAVER** Pipe Tools!

No. 41-E Geared Beaver—2½ to 4 Inches Adjustable—Gears Fully Enclosed

ADVANTAGES—Simple, rugged and adjustable to standard, or variations. One set of dies threads all four sizes. Gears are fully encased and packed in graphite grease. Dirt, sand, mud, chips and other foreign matter cannot get into the gear case and wedge between the gear and pinion teeth. Thus the principal cause of trouble in geared tools is eliminated in the 41-E Beaver—an exclusive Beaver advantage which saves many costly repair bills. The gear case is made of nickel steel (not cast iron). The lower end of pinion rides in a bronze bushing supported by the all-over cover plate—greater rigidity—longer life. The throat of the dies is ground to dress the pipe down ahead of the threading teeth thus producing smooth true threads in one operation.

Special dies available for Brass pipe.



No. 61—2½ to 6 Inches Adjustable

Operates on same principle as No. 41-E Beaver but uses two sets of dies (2½ to 3½ inches) and (4 to 6 inches).

No. 80 Beaver—4½ to 8 Inches Adjustable

Same general design as No. 61. Two sets of dies (4½ to 6 inches) and (7 to 8 inches).

No. 90 Beaver—9 to 12 Inches Adjustable

Same general design as Nos. 61 and 80. Two sets of dies (9 to 10 inches) and (11 to 12 inches).

Operating Ratchet

Furnished with each stock for hand use. These tools, however, may be operated with a Power Drive.

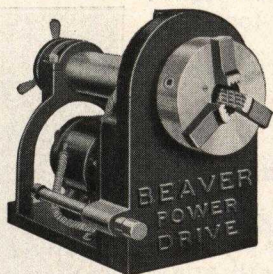
NET PRICES

No. 41-E—Beaver, complete, 2½ to 4 inches.....	\$ 55.00
Extra Dies (1 set threads all sizes), per set.....	6.00
No. 61—Beaver, complete, 2½ to 6 inches.....	121.00
Extra Dies (2½ to 3½ inches) or (4 to 6 inches), per set..	13.34
No. 80—Beaver, complete, 4½ to 8 inches.....	150.00
Extra Dies (4½ to 6 inches) or (7 to 8 inches), per set...	13.34
No. 90—Beaver, complete, 9 to 12 inches.....	250.00
Extra Dies (9 to 10 inches) or (11 to 12 inches), per set..	20.00

Beaver Power Drives

ADVANTAGES—Simple, durable, powerful, portable. Operates any make of hand cutters or threaders. On pipe sizes up to 2 inches the pipe revolves—the tools stand still—insuring safety to the operator. On pipe sizes 2½ to 12 inches an extension driving shaft operates geared cutters and threaders.

No. 46 threads up to 12 inches; No. 45 up to 4 inches; No. 44 up to 6 inches.



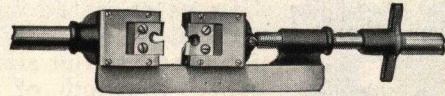
NET PRICES

No. 46 with 110 volt Universal (Reversible) Motor.....	\$187.50
No. 45 with 110 volt A. C. or D. C. Motor (15½ R.P.M.)..	145.00
No. 44 with 110 volt A. C. or D. C. Motor (8½ R.P.M.)..	125.00
Stand for Power Drive (Extra).....	20.00
Extension Driving Shaft (Extra).....	20.00

Beaver Square-End (Knife) Pipe Cutters— ⅛ to 12 Inches

ADVANTAGES—Cut pipe square without inside or outside burrs. Cutting knives, fed automatically by powerful coil springs, are so made as to prevent hogging—knife breaking—or splitting the pipe at the seam. Improved models work faster—will cut standard or extra-heavy, and cast iron drain pipe. Cut cast iron soil pipe deep enough to be easily broken off—square. Knives give hundreds of cuts, and are easily resharpened. Grinding template furnished for resharpening. Ideal tools for use with Power Drives, as well as by hand. Save the expense of broken hack-saw blades.

SPECIAL KNIVES—Extra—furnished for GROOVING pipe for compression type couplings; and for BEVELING pipe for welding.



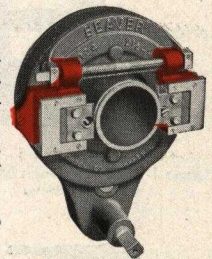
No. 1—⅛ to 1 inch. No. 5—½ to 2 inches.

Turning the "T" handle puts the knives under automatic feeding pressure—then rotate the tool like a die stock.

Geared Cutters

No. 104—2½ to 4 Inches

Simple, durable, self-contained. Gears encased and packed in grease. Universal two-jaw chuck centers and clamps it on the pipe—no loose bushings. A "one-piece" tool. No. 104 Cutter with No. 41-E Die Stock makes an unbeatable 2½ to 4 inches combination for hand or power drive use.



No. 106—2½ to 6 Inches—No. 108—4½ to 8 Inches—No. 112—9 to 12 Inches

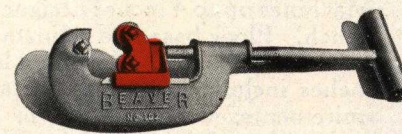
These tools have four cutting knives, pipe centering bushings and grip screws. Knives are set separately but fed automatically. Gears fully enclosed.

NET PRICES

	1	5	104	106	108	112
Ratchet Handle.....	\$13.50	\$15.00	\$62.50	\$114.00	\$144.00	\$194.00
Extra Knives, per set.....	.80	1.00	1.67	3.34	4.00	8.00
Grooving Knives, per set.....		4.00	5.00	10.00	10.00	20.00
Welding Knives, per set.....		4.00	5.00	10.00	10.00	20.00

No. 10 Ratchet Cutter, 2½ to 4". Hand use only \$60.00; Extra Knives, per set \$1.67.

No. 102 Beaver Thin Wheel Cutter—⅛ to 2 Inches



A rugged tool—extra strong frame with long screw bearing; large comfortable cross-handle—special alloy steel wheels. Made of certified malleable iron to insure long life.

NET PRICE—\$3.00. Extra Knives, \$0.24; Rollers, \$0.12; Pins, \$0.06.

Beaver Threading Oil

For Hand Tools and Threading Machines. The threads illustrated were cut with the same set of (dull) dies—showing the necessity of using specially blended sulphur-base **THREADING OIL**—an oil that both cools and lubricates. Ordinary lubricating (crank case) oil will not yield good threads, and shortens life of dies and tools.

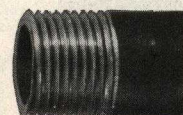
NET PRICES

5 Gallon Pail.....	\$ 4.50	30 Gallon Drum.....	\$24.00
15 Gallon Drum.....	12.75	55 Gallon Drum.....	41.25

(F. O. B. Warren, Ohio.)



With Lubricating Oil



With **BEAVER** Sulphur-base Threading Oil

NET PRICES APPLY ANYWHERE IN THE UNITED STATES